

National Imaging Associates, Inc.*	
Clinical guidelines	Original Date: September 1997
NECK CT (soft tissue)	
CPT Codes: 70490, 70491, 70492	Last Revised Date: April March 20221
Guideline Number: NIA_CG_008-1	Implementation Date: January 20232

INDICATIONS FOR NECK CT1, 2

(Aulino, 2018; Hoang, 2018)

Suspected tumor or cancer

- Suspicious lesions in mouth or throat³ (Kuno, 2014)
- Suspicious mass/tumor found on another imaging study and needing clarification¹ (Aulino, 2018)
- Neck <u>m</u>Mass or lymphadenopathy (not parotid region and not thyroid region):
 - Present on physical exam and remains non-diagnostic after ultrasound is completed³ (Kuno, 2014)
 - Mass or abnormality found on other imaging study and needing further evaluation
 - Increased risk for malignancy⁴ (Kirsch, 2019) with one or more of the following findings⁵ (Pynnonen, 2017):
 - Fixation to adjacent tissues
 - Firm consistency
 - Size >1.5 cm
 - Ulceration of overlying skin
 - Mass present ≥ two weeks (or uncertain duration) without significant fluctuation and not considered of infectious cause
 - History of cancer
 - Failed 2 weeks of treatment for suspected infectious adenopathy⁶ (Haynes, 2015)
 - Pediatric (≤18 years old) considerations⁷
 - Ultrasound should be inconclusive or suspicious unless there is a history of malignancy⁸ 11

Note: For discrete cystic lesions of the neck, an ultrasound should be performed as initial imaging unless there is a high suspicion of malignancy

- Neck Mass (parotid region)¹ (Aulino, 2018)
 - Parotid mass found on other imaging study and needing further evaluation
 Note: US is the initial imaging study of a parotid region mass to determine if the location is inside or outside the gland^{1, 9, 10} (Aulino, 2018; Burke, 2011; Cicero, 2018)

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¹⁻ Neck CT

- Neck Mass (thyroid region)² (Hoang, 2018)
 - Staging and monitoring for recurrence of known thyroid cancer² (Hoang, 2018)
 - To assess extent of thyroid tissue when other imaging suggests extension through the thoracic inlet into the mediastinum or concern for airway compression^{11, 12} (Gharib, 2016; Lin, 2016)

Note: US is the initial imaging study of a thyroid region mass. <u>Biopsy is usually the next step. CT is preferred over MRI in the evaluation of known thyroid masses malignancy, CT is preferred over MRI since there is less respiratory motion artifact.

Chest CT may be included for preoperative assessment in some cases.</u>

Pediatric patients (≤18 years old)¹⁰

(Wai, 2020)

- Neck masses if ultrasound is inconclusive or suspicious¹¹ (Brown, 2016)
- History of malignancy

Known or suspected deep space infections or abscesses of the pharynx or neck with signs or symptoms of infection¹³ 14

(Meyer, 2009)

Known tumor or cancer of skull base, tongue, larynx, nasopharynx, pharynx, or salivary glands

- Initial staging³ (Kuno, 2014)
- Restaging during treatment
- Areas difficult to visualize on follow-up examination
- Suspected recurrence or metastases based on symptoms or examination findings¹⁴ (Vogel, 2016)
 - New mass
 - Change in lymph nodes

Indication for combination studies for the initial pre-therapy staging of cancer, OR active monitoring for recurrence as clinically indicated OR evaluation of suspected metastases

• ≤ 5 concurrent studies to include CT or MRI of any of the following areas as appropriate depending on the cancer: Neck, Abdomen, Pelvis, Chest, Brain, Cervical Spine, Thoracic Spine or Lumbar Spine

Pre-operative/procedural evaluation

• Pre-operative evaluation for a planned surgery or procedure

Post-operative/procedural evaluation (e.g., post neck dissection)

 A follow-up study may be needed to help evaluate a patient's progress after treatment, procedure, intervention, or surgery. Documentation requires a medical reason that clearly indicates why additional imaging is needed for the type and area(s) requested.

Other indications for a Neck CT

- Salivary gland stones
- Sialadenitis (infection and inflammation of the salivary glands) with indeterminate ultrasound, bilateral symptoms or concern for abscess¹⁵
- Suspected or known salivary gland stones 10, 15-18 (29-31)(Cicero, 2018)
- To assess for foreign body when radiograph is inconclusive or negative¹⁹ (Guelfguat, 2014)
- Vocal cord lesions or vocal cord paralysis²⁰ (Dankbaar, 2014)
- For evaluation of tracheal stenosis^{21, 22} (Chung, 2011; Heidinger, 2015)
- Dysphagia after appropriate work up including endoscopy and fluoroscopic studies (modified barium swallow, or biphasic esophogram)^{23, 24} (Levy, 2018; Pasha, 2014)
- Unexplained throat pain for more than 2 weeks when ordered by a specialist with all of the following²⁵⁻²⁷ (Feierabend, 2009; Jones, 2015; Shephard, 2019)
 - Complete otolaryngologic exam and laryngoscopy
 - No signs of infection
 - Evaluation for and for failed treatment of laryngopharyngeal reflux
 - Risk factor for malignancy, i.e., tobacco use, alcohol use, dysphagia, weight loss OR age older than 50 years
- Unexplained ear pain when ordered by a specialist and MRI is contraindicated with all of the following²⁸ (Earwood, 2018)
 - Otoscopic exam, nasolaryngoscopy, lab evaluation (ESR, CBC) AND
 - Risk factor for malignancy, i.e., tobacco use, alcohol use, dysphagia, weight loss OR age older than 50 years
- Diagnosed primary hyperparathyroidism when surgery is planned
 - Previous nondiagnostic ultrasound or nuclear medicine scan²⁹ (Tian, 2018)
- Bell's palsy/hemifacial spasm, if MRI is contraindicated or cannot be performed (for evaluation of the extracranial nerve course)
 - If atypical signs, slow resolution beyond three weeks, no improvement at four months, or facial twitching/spasms prior to onset³⁰ (Quesnel, 2010)
- Objective cranial nerve palsy (CN IX-XII) if MRI is contraindicated or cannot be performed (for evaluation of the extracranial nerve course)^{31, 32} (Mumtaz, 2014; Policeni, 2017)

BACKGROUND

High resolution CT can visualize both normal and pathologic anatomy of the neck. It is used in the evaluation of neck soft tissue masses, abscesses, and lymphadenopathy. For neck tumors, it defines the extent of the primary tumor and identifies lymph node spread. CT provides details about the larynx and cervical trachea and its pathology. Additional information regarding airway pathology is provided by three-dimensional images created from the CT dataset. Neck CT can also accurately depict and characterize tracheal stenoses.

With the rise of human papillomavirus-related oral, pharyngeal, and laryngeal cancers in adults, contrast-enhanced neck CT has become more important for the evaluation of a neck mass,

deemed at risk for malignancy, surpassing ultrasound for the initial evaluation in many cases. The American Academy of Otolaryngology-Head and Neck Surgery recently issued strong recommendations for neck CT or MRI, emphasizing the importance of a timely diagnosis (Pynnonen, 2017).⁵

POLICY HISTORY

Date	Summary
March 2022	Updates Reference
	Updated background information
	Reformatted indications
	Clarified:
	Thyroid imaging
	• Abscess
	 Suspected or known salivary gland stones
	Added: Sialadenitis (infection and inflammation of the salivary
	glands) with indeterminate ultrasound, bilateral symptoms, or
	concern for abscess
April 2021	Updated references
	Re-ordered indications
	Added:
	 Neck Mass or <i>lymphadenopathy</i>
	 Mass or abnormality found on other imaging study and needing
	further evaluation
	 Unexplained throat pain for more than 2 weeks when ordered by a
	specialist with all of the following
	 Complete otolaryngologic exam and laryngoscopy
	 No signs of infection
	 Evaluation for and/or failed treatment of laryngopharyngeal reflux
	 Risk factor for malignancy i.e. tobacco use, alcohol use,
	dysphagia, weight loss OR age older than 50 years
	Unexplained ear pain when ordered by a specialist and MRI is
	contraindicated with all of the following (Earwood, 2018)
	 Otoscopic exam, nasolaryngoscopy, lab evaluation (ESR,
	CBC) AND
	 Risk factor for malignancy ie tobacco use, alcohol use,
	dysphagia, weight loss OR age older than 50 years
	Clarified:
	 Not parotid region and not thyroid region
	Known or suspected deep space infections or abscesses of the
	pharynx or neck with signs or symptoms of infection
	 Pre-operative evaluation for a planned surgery or procedure

May 2020

Clarified:

 Note: For discrete cystic lesions of the neck, an ultrasound should be performed as initial imaging unless there is a high suspicion of malignancy

Added:

- Neck Mass (non-parotid region or thyroid):
 - Present on physical exam and remains non-diagnostic after x-ray or ultrasound is completed
 - Increased risk for malignancy
 - Failed 2 weeks of treatment for suspected infectious adenopathy
- Under increased risk for malignancy
 - History of cancer

Added:

- Neck Mass (parotid)
 - Parotid mass found on other imaging study and needing further evaluation
- Neck Mass (thyroid) US is the initial imaging study of a thyroid region mass. CT is preferred over MRI in the evaluation of thyroid masses since there is less respiratory motion artifact
 - Staging and monitoring for recurrence of known thyroid cancer
- Pediatric patients (≤18 years old)
 - Neck masses in the pediatric population if ultrasound is inconclusive or suspicious
 - History of malignancy
- Under known tumor or cancer of skull base, tongue, larynx, nasopharynx, pharynx, or salivary glands
 - Areas difficult to visualize on follow-up examination

Added:

- Bell's palsy/hemifacial spasm, if MRI is contraindicated or cannot be performed (for evaluation of the extracranial nerve course)
 - If atypical signs, slow resolution beyond three weeks, no improvement at four months, or facial twitching/spasms prior to onset
- Objective cranial nerve palsy (CN IX-XII) if MRI is contraindicated or cannot be performed (for evaluation of the extracranial nerve course)

Deleted:

- Palpable from Palpable suspicious lesions in mouth or throat
- Or found by physical exam from Suspicious mass/tumor found on another imaging study and needing clarification
- For all other non-thyroid neck masses with high suspicion for malignancy start with neck CT

Deleted:

- Pediatric patients (≤ 18 years old, ultrasounds should be completed as initial imaging
 - Neck masses are a common presenting complaint in the pediatric population with malignant causes less likely than in adults
- Suspected (salivary) gland abscess or mass
- Thoracic Outlet Syndrome

April 2019

- Suspected Tumor or Cancer:
 - Added specification: "Suspected tumor or cancer (<u>not parotid region or thyroid</u>)" and removed non-diagnostic specification: 'Suspicious mass/tumor found on imaging study and needing clarification or found by physical exam <u>and remains non-diagnostic after x-ray or ultrasound is completed</u>'.
 - Added: "Ultrasound should be completed as the initial imaging"
 - Indication: Increased risk of malignancy, removed: 'No known infection and unknown duration with no fluctuation on exam'; Added: "Mass present ≥ two weeks without significant fluctuation and not considered of infectious origin"
- For pediatric patients, added indication specifying an Ultrasound should be completed as initial imaging
- Added indications: Foreign body, brachial plexus, dysphagia, extent of thyroid tissue affected after other imaging completed or concern for airway compression
- Added Background information emphasizing the importance of timely diagnosis of neck mass with Neck CT, due to prevalence of HPV and associated oral, pharyngeal, and laryngeal cancers

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Reviewed / Approved by NIA Clinical Guideline Committee

GENERAL INFORMATION

It is an expectation that all patients receive care/services from a licensed clinician. All appropriate supporting documentation, including recent pertinent office visit notes, laboratory data, and results of any special testing must be provided. If applicable: All prior relevant imaging results and the reason that alternative imaging cannot be performed must be included in the documentation submitted.

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ADDITIONAL RESOURCES

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